SHEVCHENKO, V.I.; ALPATOV, Ye.N.

New devices for the electrolytic preparation of metallographic sections. Zav.lab. 28 no.7: 883-885 '62. (MIRA 15:6)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut. (Metallography)

SHEVCHENKO, V.I.; ALPATOV, Ye.N.

Method of studying the three-dimensional microstructure of alloys. Zav. lab. 29 no.9:1095-1098 '63. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut.

: ACC NR: AP0031384

SOURCE CODE: UR/0079/66/036/009/1642/1644

AUTHOR: Shevchenko, V. I.; Kornuta, P. P.

ORG: Institute of Organic Chemistry, Academy of Sciences, UkrSSR (Institut organi-cheskoy khimii Akademii nauk UkrSSR)

TITLE: Phosphorylation of cyanoacetic acid

SOURCE: Zhurnal obshchey khimii, v. 36, no. 9, 1966, 1642-1644

TOPIC TAGS: cyanoacetic acid, phosphorylation, phosphorus pentachloride, CYANOGEN

ABSTRACT:

The reaction of cyanoacetic acid with PCl $_5$ (molar ratio 1:2) in benzene at 20—25°C yielded I, bp 102—105°C, n_D^{20} 1.5896:

 $NCCH_2COOH + 2PCl_5 \rightarrow 2HCl + POCl_3 + Cl_3P = NCCl = CHCOCl$

At temperatures above $80-85^{\circ}$ C, I reacts with PCl₅ to form II, bp 92-93°C, n_D^{20} 1.5711:

Card 1/3

UDC: 547.239.2

ACC NR: AP6031384		
$Cl_{3}P = NCCl = CHCOCl \xrightarrow{PCl_{4}} Cl_{3}P = NCCl_{2}CHClCOCl \longrightarrow Cl_{3}P = NCCl = CClCOCl$ (11)		
Compound III (bp $88-91^{\circ}$ C, n_D^{20} 1.5611) may be obtained by the reaction of I or II with elemental Cl or with PCl ₅ or by boiling	:	
for 14-15 hr a mixture consisting of 0.1 mole cyanoacetic acetic and 0.45 mole PCl ₅ . Thus the course of phosphorylation	_	
of cyanoacetic acid depends on the conditions:		
	•	
$NCCH_2COOH \xrightarrow{PCI_*} NCCH_2COCI \xrightarrow{PCI_*} CI_3P = NCCI = CHCOCI \xrightarrow{PCI_*}$		
$\longrightarrow Cl_3P = NCCl_2CHClCOCl \xrightarrow{-HCl} Cl_3P = NCCl = CClCOCl \xrightarrow{PCl_3}$ (II)		
$\longrightarrow Cl_3P = NCCl_2CCl_2COCl$ (III)		r K
	<u> </u>	
Card 2/3		0 1
	3.1.	

ACC NR: AP6031384

III in benzene solution reacts with glacial acetic acid to form
IV, bp 78—80°C, n_D²⁰ 1.5339, d_L²⁰ 1.7555: [WA-50; CBE No. 12]

Cl₃P=NCCl₃CCl₄COCl + Cl₃COOll → HCl + Cl₃COCl + Cl₂OPN=CClCCl₂COCl

SUB CODE: 07/ SUBM DATE: 02Jul65/ ORIG REF: 005/

35104

S/185/62/007/001/014/014 D299/D302

24.6716

AUTHORS: Shapiro, V.D., and Shevchenko, V.I.

TITLE: Effect of electrostatic instabilities on the distribution function of an electron beam which interacts with

a plasma in a magnetic field

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 1, 1962,

83 - 86

TEXT: Formulas are derived for the temperature variations and rectified velocity of an "almost mono-energetic" electron beam, interacting with a plasma in a magnetic field. These formulas are obtained by solving the equation for the distribution function fo. This equation is obtained from the kinetic equation, by omitting the integral of pair collisions:

$$\frac{\partial f_0}{\partial t} - \frac{e}{mc} \left[\vec{v} \vec{H_0} \right] \frac{\partial f_0}{\partial \vec{v}} - \frac{e}{m} < \vec{E}_1 \frac{\partial f_1}{\partial \vec{v}} > - \frac{e}{mc} < \left[\vec{v} \vec{H_1} \right] \frac{\partial f_1}{\partial \vec{v}} > = 0$$

This integral is omitted, as fairly "fast" processes are considered. The case is considered of longitudinal axially-symmetric plasma OS-Vara 1/3

\$/185/62/007/001/014/014

Effect of electrostatic instabilities... D299/D302

cillations, in a plane perpendicular to the magnetic field. It is assumed that the plasma oscillations are linear and that fo changes slowly with time, compared to the plasma oscillations. After transformations, one obtains from Eq. (1) the expression:

$$\frac{\delta f_0}{\delta v} = \frac{\tilde{o}}{\delta v_i} \left(\alpha_{ik} \frac{\delta f_0}{\delta v_k} \right), \tag{4}$$

where α_{ik} is the tensor of the diffusion coefficients in velocity space, in the presence of the magnetic field. A formula is given for the tensor α_{ik} for the case of instabilities due to the Vavi-

lov-Cherenkov effect, and to the anomalous Doppler effect. By solving Eq. (4), one obtains formulas for the longitudinal—and transverse temperatures and for the rectified velocity of the beam. These formulas yield, in the case of a sufficiently rarefied plasma:

$$\frac{(\Delta T)_{\perp}}{T_{0}} = \frac{1/2}{12\pi} \frac{\omega_{H}^{3}}{N_{1}u^{3}} \frac{e^{5D^{2}}}{\pi};$$

$$\frac{(\Delta T)_{1}}{T_{0}} \sim \frac{\omega^{2}}{\omega_{H}^{2}} \frac{N_{1}}{N_{0}} \frac{(\Delta T)_{\perp}}{T_{0}} \ll \frac{(\Delta T)_{\perp}}{T_{0}}; \quad |mu\lambda u| \simeq (\Delta T)_{\perp}$$

$$(7)$$

Card 2/3

S/185/62/007/001/014/014 Diffect of electrostatic instabilities... D299/D302

for instabilities due to the anomalous Doppler effect, and

$$\frac{(2T):}{T_{\bullet}} = 5 \cdot 10^{-3} \frac{\Omega^{3}}{N_{\bullet} u^{3}} \frac{e^{3} e^{7}}{e^{7} t} : \frac{(\Delta T)_{\perp}}{T_{\bullet}} \simeq \frac{\Omega^{2}}{m_{H}^{2}} \left(\frac{N_{\bullet}}{N_{\bullet}}\right)^{1/2} \frac{1}{\pi} \frac{(\Delta T)_{\perp}}{T_{\bullet}} \simeq \frac{(\Delta T)_{\perp}}{T_{\bullet}} :$$

$$|mubu| \simeq \frac{1}{2} \frac{N_{\bullet}}{N_{\bullet}} \left(\frac{N_{\bullet}}{N_{\bullet}}\right)^{1/2} (\Delta T) : (\Delta T)_{\perp}$$

$$(71)$$

for instabilities due to the Vavilov-Cherenkov effect; in formulas (7) and (7'), N_0 denotes plasma density, N_1 - beam density, $\tau = 0.0$ t, and β_D and β_c are given by expressions involving N, ω and \triangle ;

 $\frac{\sqrt{4\pi N_0 e^2}}{m}$). There are 6 Soviet-bloc references.

ASSOCIATION: Fizyko-tekhnichnyy instytut AN URSR (Physicotechnical

Institute of the AS UkrRSR), Knarkiv

SUBMITTED: September 2, 1961

Card 3/3

38860

S/056/62/042/006/017/047 B104/B102

24.6716

AUTHORS:

Shapiro, V. D., Shevchenko, V. I.

TITLE:

- The nonlinear theory of the interaction of beams of charged

particles with a plasma in a magnetic field

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1515-1528

TEXT: The changes of temperature and the directed velocity of a beam of charged particles on interaction with an electron plasma in an external magnetic field is investigated in the "quasilinear" approximation. The investigation is limited to the initial stage of the process, where the oscillation amplitudes are small and the time variation of the beam parameter causes no significant change of the dispersion coefficients. During this time the amplitude increases linearly as in the linear theory. An equation is derived which describes the change of the initial nonequilibrium distribution function of the beam and of the plasma as being due to interaction with the plasma oscillations. The changes in the mean values of the velocity and the temperature caused by the Cherenkov effect, Card 1/2

The nonlinear theory of the ...

S/056/62/042/006/017/047 B104/B102

and by the normal and anomalous Doppler effects are determined.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR

(Physicotechnical Institute of the Academy of Sciences

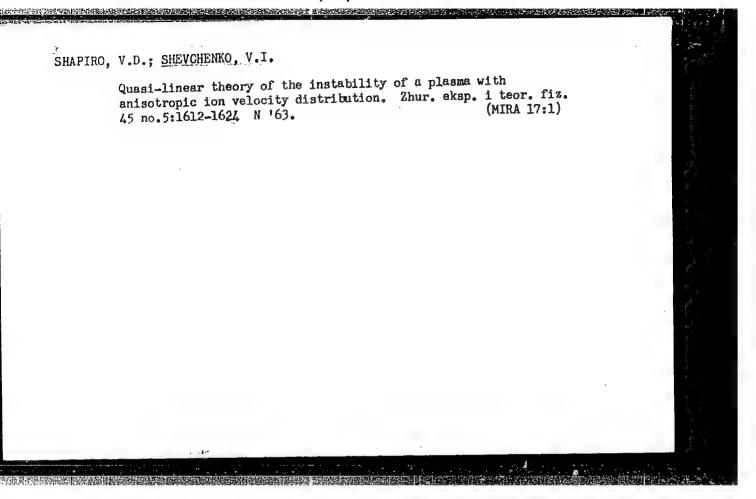
Ukrainskaya SSR)

SUBMITTED:

September 20, 1961 (initially)

March 14, 1962 (after revision)

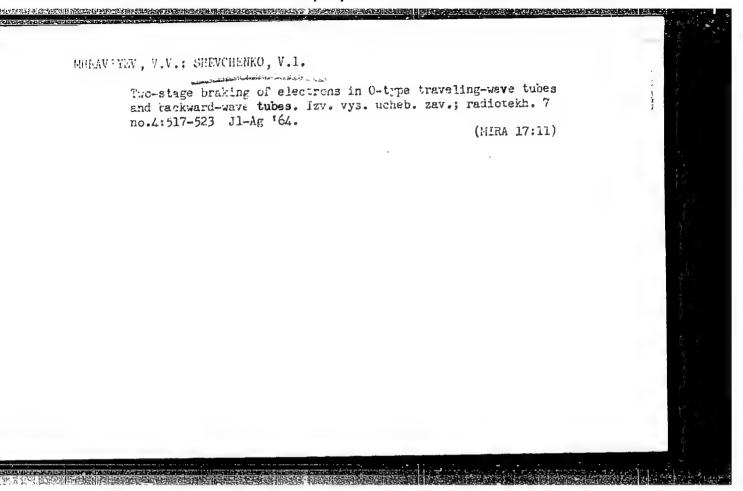
Card 2/2



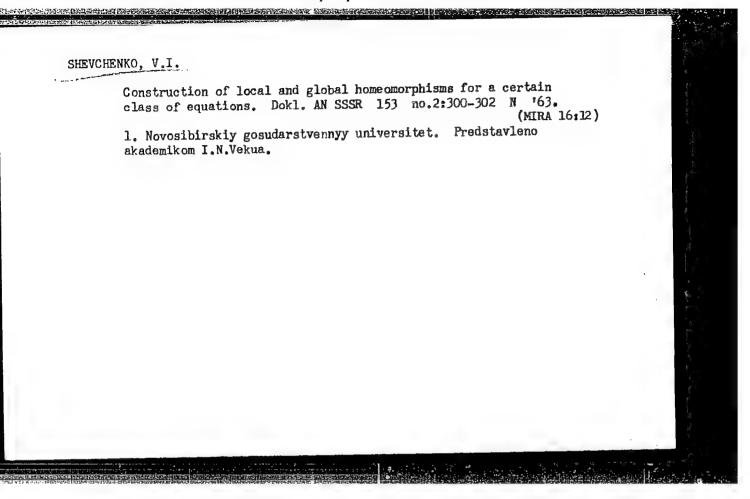
SHEVCHENKO, V.I.

Integral representation of a vector holomorphic in a sphere. Dokl. AN SSSR 153 no.6:1276-1279 D '63. (MIRA 17:1)

1. Novosibirskiy gosudarstvennyy universitet. Predstavleno akademikom I.N. Vekua.



Boundary value problem for a vector holomorphic in a half-space. Dokl. AN SSSR 154 no.2:276-278 Ja*64. (MIRA 17:2) 1. Novosibirskiy gosudarstvennyy universitet. Predstavleno akademikom I.N. Vekua.



KARPOV, P.A.; SHEVCHENKO, V.I.; TEBYAKIN, V.V.; NECHAYEVA, M.A.;

NAZARENKO, A.M.

Unconformity in the Upper Frasnian substage in the western part of Volgograd Province. Geol. nefti i gaza 7 no.12:41-44.

D 163.

(MIRA 17:8)

GHEVOHENKO, V.I.

Golder continuity of solutions to singular integral equations of the normal type. Dokl. AN SSSR 163 no.23306-308 Jl '65. (MIRA 1817)

1. Novosibirskiy gosudarstvennyy universitet. Submitted January 8, 1965.

HETCHENEN, V.1.

Riemann-Hilbert problem for a holomorphic venter. Dokl. AN SSSR 153 no.511085-1087 ig 165.

1. Movealbirakty goedlare twennyy universite to Submitted February 2, 1663.

经的复数的复数分别 至此的原体的使力的外面的第三人称形式的复数使用的大型的人人名比尔 /FTC(f)/E%G(m) SOURCE CODE: UR/0057/66/036/004/0627/0639 EPF(n)=2/EWT(1)28492-66 . AP6013117 ACC NRI 53 AUTHOR: Shevchenko, V.I. TITLE: On the nonlinear theory of the instabilities of a plasma in a strong electric ORG: none field SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, ho. 4, 1966, 627-639 TOPIC TAGS: plasma stability, plasma oscillation, relativistic plasma, plasma magnetic field, plasma electric field, betatron, nonlinear effect, ABSTRACT: The author discusses those unstable electrostatic and electromagnetic oscillations of an approximately uniform plasma in a strong electric field that cannot be stabilized by application of a strong magnetic field. The calculations were undertaken because of the importance of these instabilities for the operation of a plasma betatron. The paper is divided into two sections of approximately equal length. In the first section the linear theory of the oscillations is given. Thermal motions are neglected and the electrons are assumed to move with respect to the ions with the velocity $u = \beta c$ in the direction of an external magnetic field, which is of sufficient strength that $f^2 << F^2(1-\beta^2)$, where f and F are the electron Langmuir and Larmor frequencies, respectively. The dispersion equation is written and its solutions are discussed for resonance conditions when ku is approximately equal to f. $(1-\beta^2)^{1/2}$

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ACC NR: AP6013117

cos θ or to $F(1-\beta^2)^{1/2}$, where k is the component of the wave vector in the direction of the electron motion and θ is the angle between the wave vector and the direction of the magnetic field. Stability conditions are derived, as well as expressions for the logarithmic increment of the unstable oscillations. In the second section the author discusses nonlinear effects quadratic in the amplitudes, employing the velocity moment technique used earlier by the author and V.D.Shapiro (Zhetf, 42, 1515, 1962; 44, 613,1963). The retarding forces on the moving electrons due to the different oscillations are calculated. The principal retarding force is associated with excitation of almost longitudinal oscillations, except at ultrarelativistic velocities or in very strong magnetic fields when transverse oscillations predominate. In the case of a plasma of density 10^{10} cm and temperature 10^{5} ok in 3 k0e magnetic and 300 V/cm electric fields, the retarding force is due to excitation of almost longitudinal oscillations, but the retarding force becomes equal to the accelerating force only when the electron velocity is such that its total energy is five times its rest energy. The author thanks V.D.Shapiro for suggesting the topic and for assistance, and Ys.B. Faynberg for valuable remarks and discussions. Orig. art. has: 53 formulas.

SUB CODE: 20 SUBM DATE: 05Jun65 ORIG. REF: 012 OTH REF: 005

Card 2/2 (10

ACC NR: AP6015919	SOURCE CODE:	UR/0020/65/163/002/0	306/0308	
AUTHOR: Shevchenko, V. I.			20	
DRG: Novosibirsk State University (Novosibirskiy gosuda	rstvennyy universitet) B	
FITIE: Holder continuity of solution	ns of singular integ	ral equations of the	normal.	
SOURCE: AN SSSR. Doklady, v. 163, 1	no. 2, 1965, 306-308			
OPIC TAGS: Banach space, integral	equation, linear ope	rator, integral opera	tor	
ESTRACT: This paper generalizes a het X and Y be Banach spaces, where Y perator H, acting in these spaces, quation $H_A = f$, where $f \in Y$. Assument $f \in X$. If this equation has a so hen operator H has an inverse operathe theorem is proved by inspection.	is a subspace of X, change X to X and Y to that this equation lution μ in space X or possessing identi	and let a linear to Y. Consider the is solvable for then $\mathcal{M} \in Y$. cal properties,		
his paper confirms this proof for the perator acting in space $X \equiv L_p$ (E_n) , another a class of American binarians.	e case in which H is p>l• Y≡L, C, (E in the entire Euclid	1. 0/2/21. 0./21		

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ACC NR: AP60159	19				
I. N. Vekua on 8 undivided attent	January 1965.	The author thank work. Orig. art	s Academician I.	. N. Vekua for hi	S
SUB CODE: 12 /	SUEM DATE: 2	9Dec64 / ORIGIN	EF: 006 / OT	H REF: 002	
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Card 2/2 (1)					

ACC NR: AP7005419

SOURCE CODE: UR/0020/66/169/006/1285/1288

AUTHOR: Shevchenko, V. I.

ORG: Donetsk Computing Center, Academy of Sciences Ukrainian SSR (Donetskiy vychisliteliny tsentr AN UkrSSR)

TITLE: Hilbert's problem for a holomorphic vector

SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1285-1288

TOPIC TAGS: vector, Hilbert space, Riemann space

ABSTRACT: The article concerns the linear conjugacy problem (Hilbert's problem)

for a holomorphic vector, known for short as the H problem. It is shown that,

given a certain condition upon the conjugacy matrix G, the H problem is a

Fredholm problem. The conjugate H' problem is introduced for consideration and

a necessary and sufficient condition obtained for the solvability of the H prob
lem. The author uses singular integral equations to investigate the H problem,

proceeding according to the ideas of I. N. VEKUA. The manner of introducing

the conjugate H' problem is similar to the method employed by B. V. BOYARSKIY

in the planar case. A relationship is established between Hilbert's problem

and the Riemann-Hilbert problem (the f problem). This paper was presented by

I. N. Vekua, Academician. The author thanks Academician I. N. Vekua for

his interest. Orig. art. has: 17 formulas. [JPRS: 38,695]

SUB CODE: 12 / SUBM DATE: 23Sep63 / ORIG REF: 008

Card 1/1

UDC: 517.946.9

ACC NR: AP7004745 (A) SOURCE CODE: UR/0413/67/000/001/0037/0037

INVENTOR: Shevchenko, V. I.

ORG: none

TITLE: Method of centralized programmed control. Class 21, No. 189915

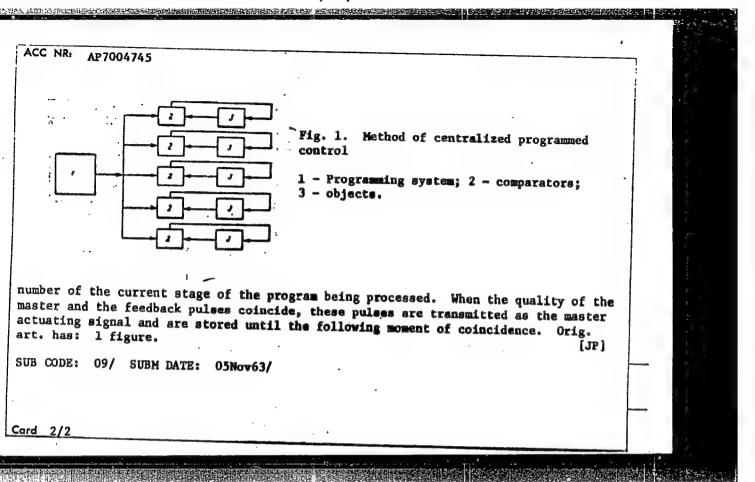
TOPIC TAGS: centralized control, programmed control, AUTOMATIC CONTROLDESIGN, SIGNAL MODULATION

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 37

ABSTRACT: An Author Certificate has been issued for a method for obtaining centralized control, with one program of a group of non-synchronously operating machines. The method consists in the following: the signal of a program reproduced in an accelerated time scale is modulated by reference pulses which characterize the number of the program stage to which the given value of the master actuating signal refers. This signal is compared with the feedback signal which characterises the

Card 1/2

UDC: 62-503.55



ACC NR: AP7006136

SOURCE CODE: UR/0056/67/052/001/0144/0153

AUTHOR: Shapiro, V. D.; Shevchenko, V. I.

其外地位出版的上线的地名的 加州西北美国河北部民共和国西北部区的东西区外的东西在西北部市民民主义

ORG: Physicotechnical Institute, Academy of Sciences, Ukrainian SSR (Fizikotekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

TITLE: Contribution to the nonlinear theory of stability of an electron beam in a system with electrodes

SOURCE: Zhurnal eksperimental'noy i teereticheskoy fiziki, v. 52, no. 1, 1967, 144-

TOPIC TAGS: plasma instability, nonlinear theory, plasma beam interaction, electron and article deals with the nonlinear theory of the instability first considered by J. R. Pierce (J. Appl. Phys. v. 15, 721, 1944), produced when a monoenergetic electron beam passes between electrodes kept at constant potential. Small supercriticality is assumed. The method used in the analysis is the same as used by one of the authors (Shapiro, Izv. Vuzov Radiofizika v. 7, 736, 1964) for a beam with periodically varying parameters. The plasma oscillations are described by means of the hydrodynamic equations, which are solved subject to the same boundary conditions as imposed by Pierce. The solution of these equations yields the complex amplitude of the instability oscillations and a critical velocity is introduced to differentiate between oscillations that can be stabilized and those that can not. It is concluded that the system possesses "hard" excitation, so that when it goes through the stabili-

Card 1/2

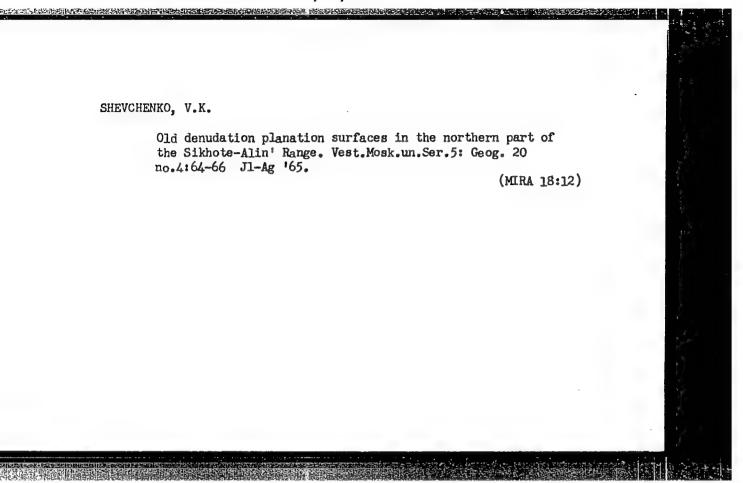
ACC NR. AP6036370 SOURCE CODE: UR/0109/66/011/011/1986/1993 AUTHOR: Taranenko, V. P.; Shevchenko, V. I. ORG: none TITLE: Selecting the optimal diameter of the drift channel in high-power broadband TW tubes SOURCE: Radiotekhnika i elektronika, v. 11, no. 11, 1966, 1986-1993 TOPIC TAGS: TW tube, delay structure, electron tube ABSTRACT: Based on theoretical data and results of "cold" measurements, the optimal size of drift aperture in a positivemutual-inductance-type delay structure (see figure) is determined. The aperture diameter ensures an optimal relation between the nondimensional parameters: gain C and space charge QC. Experimental dispersion characteristics and plots of

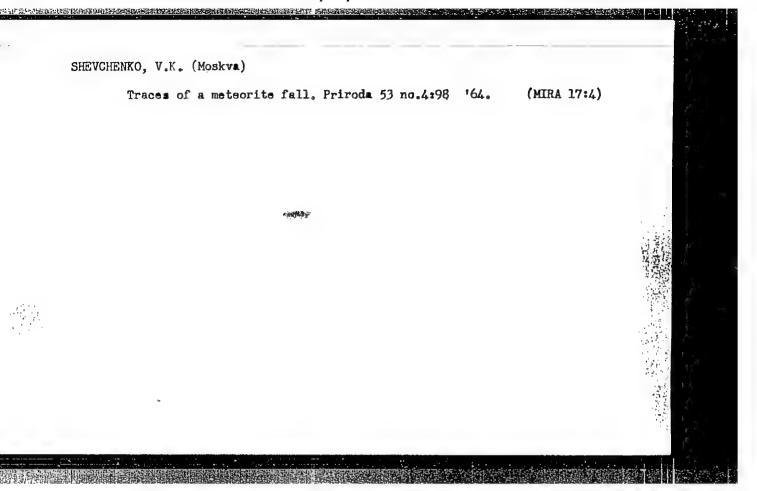
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Card 1/2

coupling resistance vs. phase shift per period, for drift-aperture radii of 1.5, 2, 2.5, 3, and 3.5 mm are shown. Curves of estimated TW-tube efficiency vs. translated aperture radius, for 0.3—0.6 microperveance values, are presented. A final set of curves for the optimal aperture radius permits selecting the drift channel on the basis of specified values of the fill factor, electron-beam microperveance, and experimental coupling resistance. Orig. art. has: 5 figures, 6 formulas, and 1 table. SUB CODE: 09 / SUBM DATE: 05Jul65 / ORIG REF: 003 / OTH REF: 003

Cord 2/2

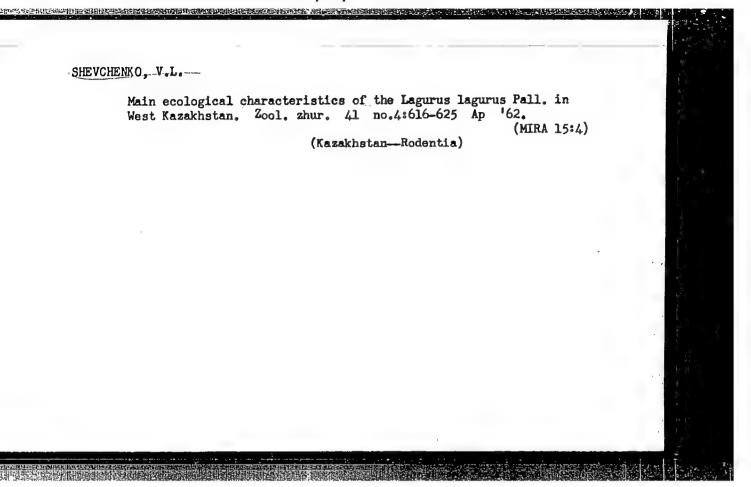




SHEVCHENKO, V.L.

Birds in the irrigated fields of the Kamenka-Dneprovskaya Experiment Station. Uch.zap. KHGU 52:131-135 '54. (MIRA 11:11)

1. Kafedra zoologii pozvonochnykh Kharikovskogo gosudarstvennogo universiteta (zav. - prof. I.B. Volchanetskiy).
(Kamenka-Dneprovskaya District-Birds) (Irrigation)



SHEVCHENKO, V.L.

Reproduction and change in the aboundace of the steppe vole Lagurus lagurus Pall in the Ural Mountain region. Zool. zhur. #2 no.1:114-125 '63. (MIRA 16°5)

(Ural Mountain region-Field mice)

SHEVCHENKO, V.M., redaktor; VELIZHEV, A.B., redaktor; SOLOV'YEV, S.H., teknoloheskiy redaktor

[Periodical press of the U.S.S.R. from 1917 to 1949; a bibliography. Journals, proceedings and bulletins on tehnology and industry] Periodicheskaia pechat' SSSR 1917-1949; bibliograficheskii ukazatel'. Zhurnaly, trudy i biulleteni po tekhnike i promyshlennosti. Moskva, 1955. 315 p. (MIRA 9:3)

1. Vsesoyuznaya knizhnaya palata.
(Bibliography--Technology) (Bibliography--Industry)

BUZANOV, I.F., red.; VARSHAVSKIY, B.Ya., red.; ORLOVSKIY, N.I., red.;
PODTYKAN, Ya.P., red.; SHEVCHENKO, V.N., red.; POZRAR, Z.A.,
red.; AREF'YEV, T.I., red.; USHAKOV, A.F., red.; MAKSIMOVICH,
A.Ye., red.; SIDOROV, A.A., red.; DANIKOVA, M.G., red.;
SERDYUK, B.M., red.; LAPCHENKO, K.P., tekhn. red.

[Basic conclusions of research work in 1959-1960]Osnovnye vyvody nauchno-issledovatel'skikh rabot 2a 1959-1960 gg. Kiev,
Izd-vo UASKhN, 1962. 308 p. (MIRA 16:4)

1. Kiev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti. 2. Deystvitel'nyy chlen Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk im.V.I.Lenina (for
Buzanova).

(Sugar beets--Research)

SHEVCHENKO, V.N., inzhener; CORELIK, M.G., inzhener.

Transperting asbestos slate slabs en trays with hinged stirrups. Rats.i isobr. predl. v stroi. ne.117:11-12 155.

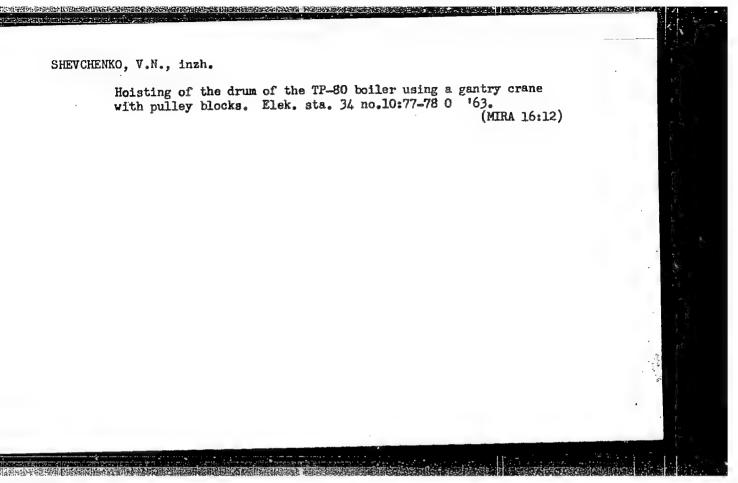
(Conveying machinery)

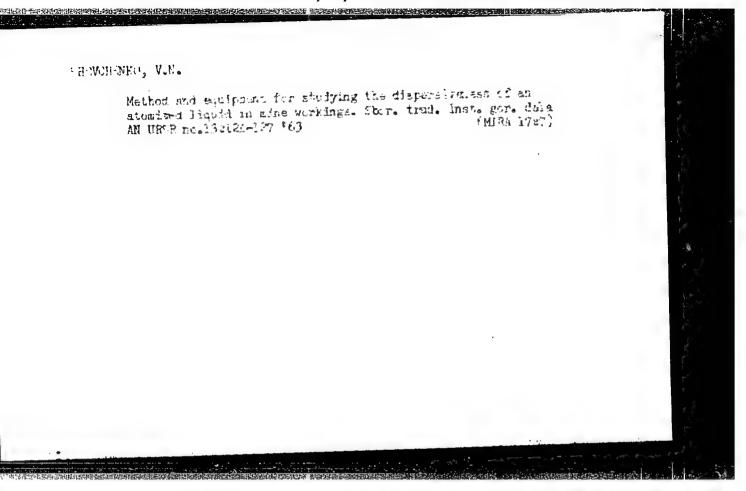
(Conveying machinery)

SHEVCHERKO, V.N.

Problem of optimal calendar planning with limitation of the number of workers. Izv.vys.ucheb.zav.; radiofiz. 8 no.3:635-537 165. (MIRA 18:8)

1. Nauchnc-issledovatel skly fizike-tekhnicheskiy institut pri Gor kovskom universitete.





GLEBSKIY, Yu.V. (Gor'kiy); SHEVCHENKO, V.N. (Gor'kiy)

Preparation of an optimum work schedule. Probl. kib. no.1C:275-279
163. (MIRA 18:4)

ZHITKEVICH, Ye.N., starshiy nauchnyy sotrudnik; PETRUKHA, Ye.I., kand. biolog.nauk; POZHAR, Z.A., kand.sel'skokhoz.nauk; SHEVCHENKO, V.N., kand.sel'skokhoz.nauk; BUTOVSKIY, A.P., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog; GRCMAKOV, P.M., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog [deceased]; MARKOV, F.I., kand.biolog.nauk, spetsialist entomolog i fitopatolog; PUCHKOV, V.G., kand.biolog.nauk, spetsialist entomolog i fitopatolog; PALIY, V.F., doktor biolog.nauk, spetsialist entomolog i fitopatolog; POLEVOY, V.V., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog; SHMKLEVA, V.A., kand.biolog.nauk, spetsialist entomolog i fitopatolog; SHMKLEVA, V.A., kand.biolog.nauk, spetsialist entomolog i fitopatolog; ZVEREZOMB-ZUBOVSKIY, Ye.V., prof., doktor sel'skokhoz.nauk; MOROCHKOVSKIY, S.F., prof., doktor biolog.nauk; MURAV'YEV, V.P., prof.; SALUNSKAYA, N.I., kand.biolog.nauk; SAVCHENKO, Ye.N., red.; ZUBAREV, A.S., khudozh,-tekhn.red.

[Sugar beet growing] Sveklovodstvo. Izd.2., perer. i dop. Kiev. Gos.izd-vo sel'khoz.lit-ry USSR. Vol.3. Pt.1. [Sugar beet pests and their control] Vrediteli sakharnoi svekly i mery bor'by s nimi. Pt.2. [Sugar beet diseases and their control] Bolezni sakharnoi svekly i mery bor'by s nimi. 1959. 642 p. (MIRA 12:11) (Continued on next card)

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ZHITKEVICH, Ye.N.---(continued) Card 2.

1. Kiyev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly (for Zhitkevich, Petrukha, Pozhar, Shevchenko). 3. Uladovo-Lyulinetakaya opytno-selektaionnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta sakharnoy svekly (for Butovskiy). 4. Ivanovskaya opytno-selekta.stantsiya Vsesoyuznogo nauchno-issledov.instituta sakharnoy svekly (for Gromakov). 5. Kurgizakaya opytno-selekta.stantsiya Vsesoyuznogo nauchno-issledov.instituta sakharnoy svekly (for Markov, Polevoy).6. Vseslopodolyanskaya opytno-sel.stantsiya Vsesoyuznogo nauchno-issledov.instituta sakharnoy svekly (for Pally). 8. Perromayskaya opytno-selekta.stantsiya Vsesoyuzn.nauchno-issledov.instituta sakharnoy svekly (for Pally). 8. Perromayskaya opytno-selekta.stantsiya Vsesoyuznogo nauchno-issledov.instituta sakharnoy svekly (for Shina-leva). 9. Chleny-korresp. AN USSR (for Zverezomb-Zubovskiy, Hurav'ysv).

(Sugar beets--Diseases and pests)

VEKSLER, 1.G., SHEVCHENKO, V.N.

Effect of homotransplantation of bone marrow on the toxicity and antineoplastic activity of some alkylating drugs. Vop. cnk. 11 no.7:71-76 '65. (MIRA 18:9)

l. Iz laboratorii patogeneza i patogeneticheskoy terapii opukholey (rukovoditel'- kand. med. nauk K.P. Balitskiy) Ukrainskogo nauchno-issledovatel'skogo instituta eksperimental'noy i klinicheskoy onkologii (dir.- akademik AN UkrSSR, R.Ye. Kavetskiy).

100 112 32 342 30BY

: Plant Diagrees. Diseases of Cultivated Plants

478. 1078. : RZBiol., Mo.12, 1908, Mo.53990

1371.011

: Shevchenko, V.N.

INT.

: Kharkov Univ.

1 Mars

: Changes in Careals Rust Resistance and the

Tasks of Breeding

CAIG. PUE. : V sb.: Vopr. metodikik selektaii pahenitsy 1 kukurumy, Khar'kov Un-t, 1957, 99-105

STEPRATE

: Investigations made by the All-Union Scientific Research Institute for Sugar Beets have shown that new resistant winter wheat varieties relatively rapidly lose their resistance to rust (in 5-8 years), while new oat verieties retain their resistance for a long time. The agent of crown rust in oats is characterized by its yearly completion of the sexual process, thus eliminating the possibility of isolated constant physiological races

CARD:

1/3

APPROVED FOR RELEASE: 0862352900 64A-RDP86-00513R001549210015

ABS. JOUR. : RZB101., Mo. 12, 1958, No. 53990

AUTHOR

INST.

TITLE

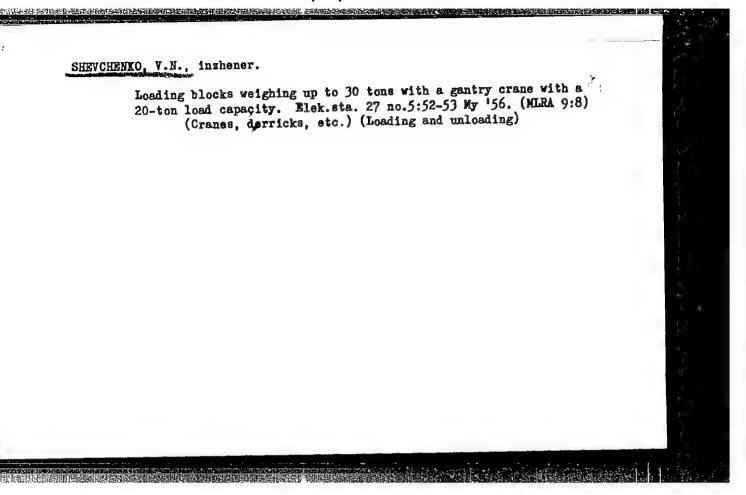
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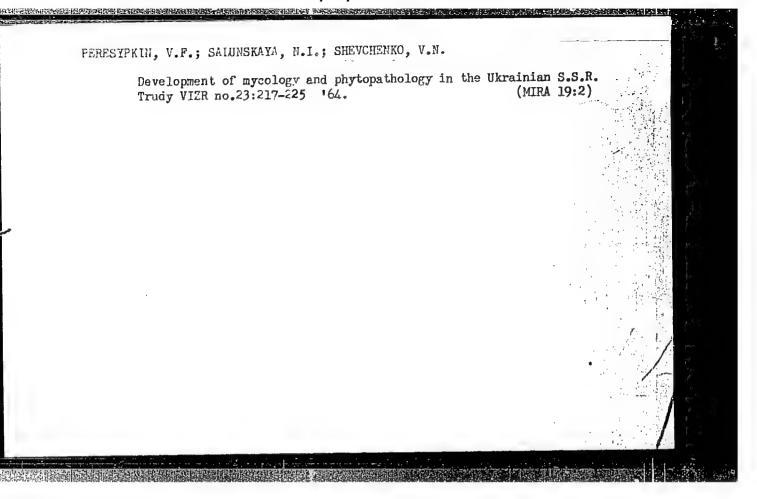
ABSTRACT

; forming. The sexual process is practically negligible in wheat leaf rust; in vegetative reproduction individual variations are converted to diversities in race. The loss of resistance in wheat can be explained by races of parasite arising which are specific to the given variety. It is recommended that steps be taken to increase the number of resistant wheat varieties, while periods for utilizing these in production are pro-

CARD:

2/3





SHEVCHENKO, V. P.

"Water Drainage From the Roofs of Buildings During the Winter Time." Cand Tech Sci, Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev, Min Higher Education USSR, Moscow, 1955. (KL, No 17, Apr 55)

这是不是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

Planing machine with hard-alloy tipped knives. Der. prom. 5 no.10:22 0 '56. (MLRA 9:11)

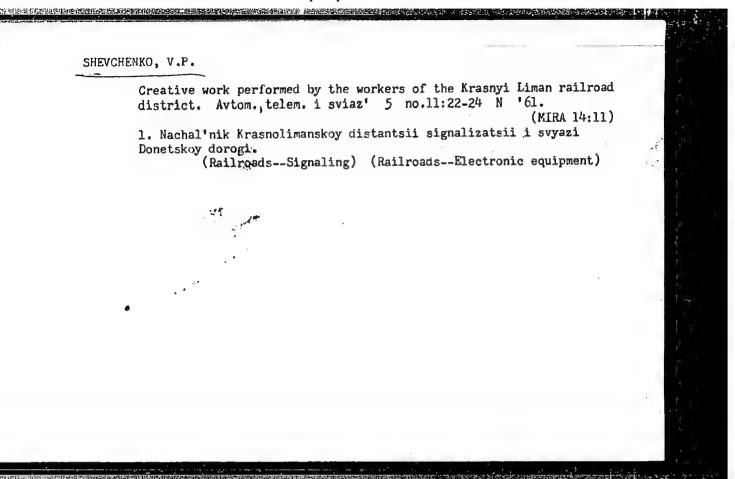
(Planing machines)

SHEVCHENKO, V.P., kand.tekhn.nauk

Heat protecting properties of brick walls under conditions prevailing in Kharkov. Trudy Khar.inzh.-stroi.inst. no.14:3-7 60.

(MIRA 15:7)

(Kharkov--Walls--Thermal properties) (Sand-lime products)



SHEVCHENKO, V.P., inzh.; SAPIRO, L.S., inzh.; GLUSHCHENKO, A.S., inzh.

Pack cutting with low-pressure oxygen. Svar.proizv. no.4:38
Ap '62. (MIRA 15:3)

1. Donetskiy mashinostroitel'nyy zavod imeni 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy.

(Gas welding and cutting)

BORT, Mikhail Mikhaylovich, kand. tekhn. nauk; SHEVCHENKO, Viktor

Prokov'yevich, inzh.; GLUSHCHENKO, Andrey Semenovich;

VASILENKO, V.P., red.; TIMOSHEVSKAYA, A.A., tekhn. red.

[Metal cutting with oxygen at low pressure]Rezka metalla kislorodom nizkoge davleniia. Donetsk, Donetskoe knizhnoe izd-vo, 1961. 29 p. (MIRA 15:9) (Gas welding and cutting)

DUNDICH, Yevgeniy Ivanovich; KONSTANTINOV, Vsevolød Fedorovich; REUSOVA, Valeriya Alekseyevna; SHEVCHENKO, V.P., kand. tekhn. nauk, dots., otv. red.; KOVALEVA, Z.G., red.; TROFIMENKO, A.S., tekhn.red.

[Laboratory manual on the structural physics of exterior elements of buildings]Laboratornyi praktikum po stroitel'noi fizike og-razhdaiushchikh konstruktsii zdanii. Khar'kov, Izd-vo Khar'kov-skogo univ., 1962. 192 p. (MIRA 16:2)

(Building research)

TRENIN, S.I.; CHEKHOV, V.N.; SHEVLYAKOV, Yu.A.; SHEVCHENKO, V.P. (Dnepropetrovsk)

"General solution of the equations of shallow shells and some estimates of the bending theory"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

BERZON, V.O.; SHAPARAYEV, A.V.; SHEVCHENKO, V.P.

Introducing new methods for the preparation of a blastfurnace charge. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.
nauch. i tekh.inform. 17 no. 5:3-6 My '64.

(MIRA 17:6)

CRIN', Igor' Mikhaylovich; ILIK, Mark Il'ich; POBEREZKIN, Yefim Anatol'yevich; SKVORTSOV, Nikolay Alekseyevich; SHEVCHENKO, V.P., dots., otv. red.

[Use of plastics in structural engineering] Stroitel'nye konstruktsii s primeneniem plasticheskikh mass. [By]
I.M.Grin i dr. Khar'kov, Izd-vo Khar'kovskogo univ.,
1964. 181 p. (MIRA 18:1)

BERZON, V.O.; SHARAPAYEV, A.V.; SHEVCHENKO, V.P.

Production of fluxed pellets. Biul. tekh.- ekon. inform. Gos. nauch.-isel. inst. nauch. i tekh. inform. 17 no.3:3-5 164. (MIRA 17:9)

Will's, first force lyetich, doktor med. mank; SHEVOHENKO, Vadom taylow of the motier and the development of the child organizm materi i razvitle rebenks. Moskva, Izdova "Nummie", 1965. 30 p. (Harodnyi universitet. Fakul Vict giorovita, ma.3)

ENT(d)/ENT(m)/ENA(d)/ENP(w)/ENP(k)/ENA(h) 1 10440-65 5/0198/64/010/004/0382/0391 ACCESSION NR: AP4043300 AUTHOR: Shevlyakov, Yu. A. (Dnipropetrovsk); Shevchenko, V. P. (Dnipropetrovsk) Solution of the problem of the flexure of shallow spherical TITLE: shells Pry*kladna mekhanika, v. 10, no. 4, 1964, 382-391 SOURCE: TOPIC TAGS: spherical shell, shallow shell, shell flexure ABSTRACT: A particular solution of differential equations for the flexure of a shallow spherical shell under the action of concentrated forces and bending moments was found by the method of Fourier-Hankel integral transformations. The axially symmetric deformation of the shell was studied. The application of the superposition method made it possible to obtain particular solutions for circular and angular loading. Nonaxisymmetric loading by a concentrated force at an arbitrary point and by a concentrated moment was also studied. A particular solution for more complex asymmetric loading can be obtained from the solution for a corresponding symmetric load and by using the Card 1/2

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SHEVLYAKOV, Yu.A. (Dnepropetrovsk); SHEVCHENKO, V.P. (Dnepropetrovsk)

Shallow spherical shell under the action of concentrated forces and moments. Prikl. mekh. 1 no.2:74-77 '65.

(MIRA 18:6)

1. Dnepropetrovskiy gosudarstvennyy universitet.

Pf-lt/Peb 5/0258/65/005/001/0189/0192 FESSION NO. AP5006170 AUTHOR: Derkach, P. Kh. (Enepropetrovsk); Shevchenko, V. P. (Dnepro pretrovsk) TITLE: Load carrying capacity of a shallow spherical shell SOURCE: Inzhenernyy zhurnal, v. 5, no. 1, 1965, 189-192 TOPIC TAGS: spherical shell, shallow spherical shell, spherical shell capacity, shell strength, circular plate capacity, circular plate strength, limit equilibrium ABSTRACT: The limit equilibrium of a shallow spherical shell simply supported at the edge and subject to a uniform continuous normal pressure is discussed. The loading and support are axisymmetric. The shell material is rigid plastic, obeying the Tresca yield condition and associated flow. Equilibrium equations of the shell are used in determining, by means of the limit-equilibrium theory, the stress and displacement distribution in the shell and its load carrying capacity at the yield point. The capacity of a circular plate is determined as a particular case. The results of calculations made by : Card 1/2

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ACCESSION NR: AP5006170

using the formulas derived are compared with experimental data in a diagram. Orig. art. has: 2 figures and 25 formulas. [VK]

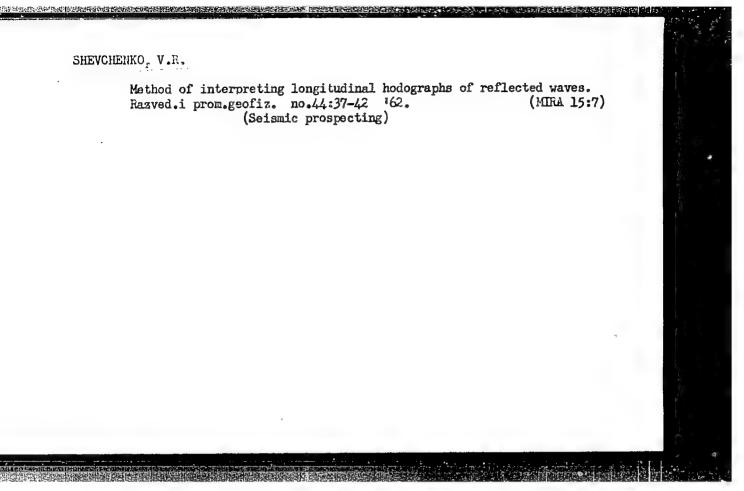
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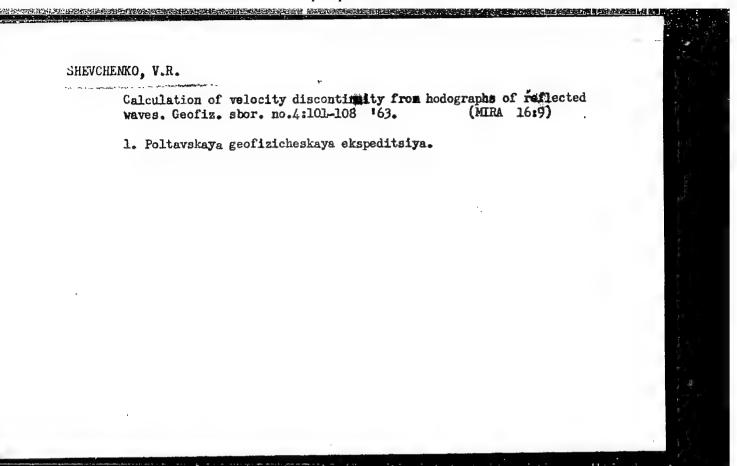
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NO REF SOV: 002 OTHER: 001 ATD PRESS: 3193

EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m)-6WW/EM IJP(c) L 14940-66 ACC NR: AP5019412 SOURCE CODE: UR/0021/65/000/007/0864/0867 Shevchenko, V. P. AUTHOR: ORG: Dnepropetrovsk State University (Dnipropetrovs'kyy derzhavnyy universytet) TITLE: The action of concentrated tangential forces on a shallow cylindrical shell SOURCE: AN UkrRSR. Dopovidi, no. 7, 1965, 864-867 TOPIC TAGS: shell theory, Fourier transform, elasticity theory, WIFRWAL STRESS ABSTRACT: A partial solution is found for the equilibrium equation of a shallow cylindrical shell. Equations for the displacement components and components of the internal stress are derived. A Fourier transformation is applied to obtain expressions from which may be found asymptotic formulas for the displacements and the internal forces around the point at which a concentrated force is applied. Orig. arg. has: 7 equations. SUB CODE: 20/ SUBM DATE: 04Jun64/ ORIG REF: OTH REF:

Card 1/1

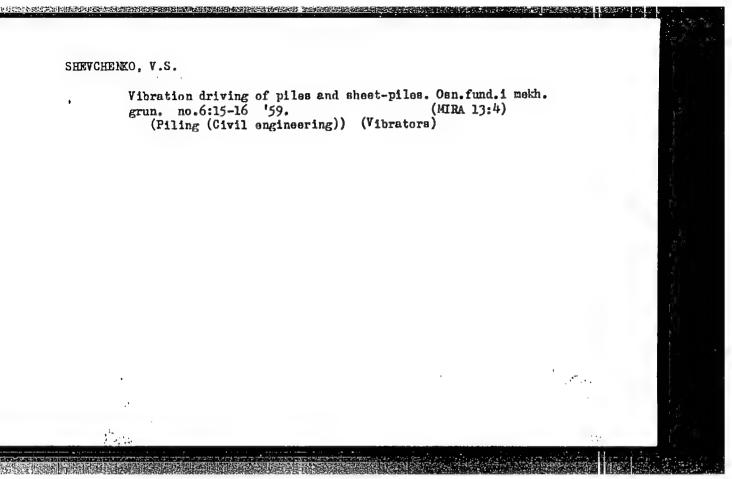




SHEVCHENKO, V.R.

Using the results of seismic prospecting for paleotectonic concepts. Geol. nefti i gaza 7 no.8:55-58 Ag '63. (MIRA 16:10)

1. Poltavskaya geofizicheskaya ekspeditsiya.



8(5) AUTHOR: Shevchenko, V. S., Engineer (Moscow)

307/105-59-7-5/30

TITLE:

Electromechanical Resonance in an Inert Jolting Machine (Elektromekhanicheskiy rezonans v inertsionnoy vibromashine)

PERIODICAL:

Elektrichestvo, 1959, Nr 7, pp 22 - 25 (USSR)

ABSTRACT:

In several papers (Refs 1,2) electromechanical resonance is described. The following case is investigated: Then an inert jolter driven by an asynchronous motor is placed upon an elastic base, it is not able, in some cases, to attain its normal speed, and works with a frequency that is characteristic of the elastic system concerned. It is shown that this phenomenon is due to the sudden increase of the load moment on the motor shaft as a result of the resonance in the system consisting of the jolter and the elastic base. For the stable operation of the jolter it is necessary that at the respective rotational speed of the excenter, the average value (during one period) of the static load moment is equal to the moment of rotation of the motor. It is further shown that the jolting motor may be selected for starting and overcoming the resonance load peak by jointly constructing the diagram for the average value of the static load moment together with that for the

Card 1/2

moment of rotation of the motor as inctions of the angular

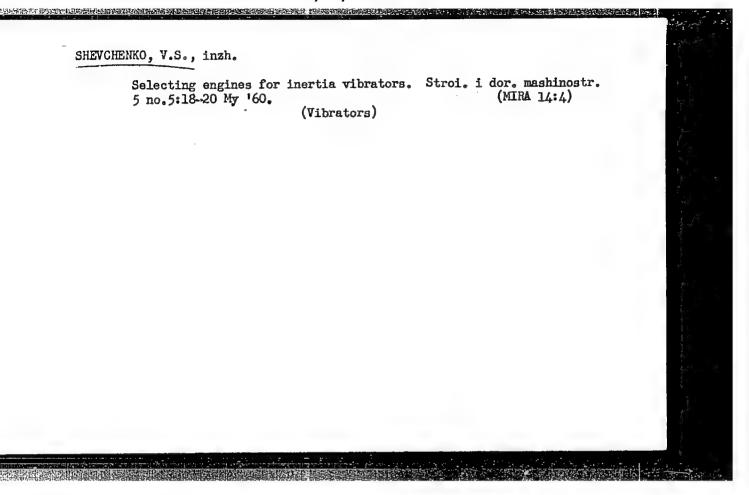
Electromechanical Resonance in an Inert Jolting Machine SOV/105-59-7-5/30

velocity of the excenter. That combination is chosen in the case of which the point of intersection of the two curves is within the range of the working-speeds of the motor. Selection of the jolting motor for stable work at a frequency of vibro-oscillations that is lower than the resonance frequency of the system may be carried out analytically according to the formulas (10) to (15). There are 4 figures and 2 Soviet references.

SUBMITTED:

December 24, 1958

Card 2/2



SHEVCHENKO, Vasiliy Stepanovich; SVETLOVA, Anna Nikolayevna; LOPATIN, G.S., prof., doktor ekonom. nauk, red.; YEPIFANOV, M.P., red.; ROMANOVA, N.I., tekhn. red.

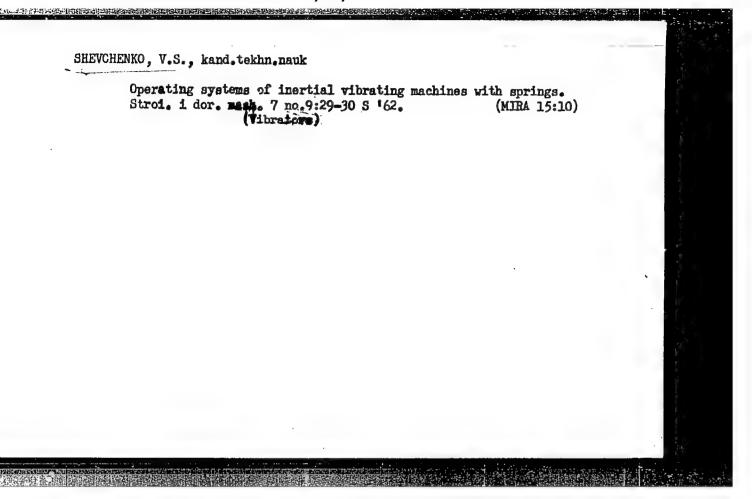
[Forereign trade correspondence and documentation; textbook] Vneshnetorgovaia korrespondentsiia i dokumentatsiia; uchebnoe posobie. Pod red. G.S.Lopatina. Moskva, Izi-vo IMO, 1961. 203 p. (MIRA 14:12) (Russia—Commerce)

SHEVCHENKO, Vsevolod Sil vestrovich, inzh.

大学工作的证据证明的,我又在专业技术的自然的证明是这种的对象的对象,就是这种的。 医阿里拉斯氏试验的现在分词

Concerning the construction of load diagrams for the electric drives of inertial vibrators. Izv.vys.ucheb.zav.; elektromekh. 5 no.3: 315-320 *62. (MIRA 15:4)

1. Voyenno-inzhenernaya akademiya.
(Vibrators-Electric driving)



GOFANSKIY, G.K.; SHEVCHENKO, V.S.

Determining optimum structural parameters for the pumping units of gear pumps (engines) using the methods of linear programming.

Nauka - proizv. no.1:80-89 '63. (NIRA 16:3)

SHEVCHENKO, V.S.

Photometric method of processing star tracks. Izv. AM Us.SCA.Ser.
fiz.-mat.nauk 8 nc.4473-77 164. (MIRA 18:3)

1. Tashkentskaya autronomicheskaya observatoriya AN UsSSR.

BARANNIKOV, Mikhail Andreyevich; SHEVCHENKO, V.S., inzh., retsenzent; SAAK'YAN, Yu.A., red.

[Welding of plastics] Svarka plastmass. Rostov-na-Domm, Rostovskoe knizhnoe izd-vo, 1964. 166 p. (MIRA 18:4)

PETROV, Viktor Nikolayevich; SHEVCHENKO, Vladimir Trofimovich; GAMBURTSEVA, L.V., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Operation and repair of KR1 electric trains] Opyt eksplustatsii i remonta elektropoezdov KR1. Moskva, Vses.izdatel'sko-poligr.ob"-yedinenie M-va putei soobshcheniia, 1960. 60 p. (MIRA 13:9) (Electric railrosds)

SHEYCHEMKO, V.T., mashinist Racommendation to engineers of electric units. Elek.1 tepl. tiaga. 4 no.6:36-37 Je '60. (MIRA 13:8) 1. Hoskovskoye lokomotivnoye depo Oktyabr'skoy dorogi. (Electric railroads--Signaling)

SHEVCHENKO, V.T., Cand Agr Sci — (diss) "Improving spring wheat lutescence 62 considering the free interpretating conditions of the pollinators."

Khar'kov, 1959, 20 pp (Min of Agr UkSSR. Khar'kov Order of Labor Red Banner Agr Inst im V.V. Dokuchayev) 150 copies

(KL, 33-59, 120)

- 50 -

Cooperative utilization of equipment. Zhel.dor. transp. 42 no.4:35-38 Ap '60. (MIRA 13:7) 1. Sekretar' Luganskogo obkoma Kommunisticheskoy parti1 Ukrainy. (Railroads—Joint use of facilities) (Donets Basin—Coal—Transportation)

SHEVCHENKO, V.V.

Distribution of chromosome breakage in Crepis capillaris as affected by maleic hydrazide. Genetika no. 6:86-93 D '65 (MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

SHEVCHENKO, V.V., ingh.

Investigating an asynchronous machine as a thermal system.
Trudy MEI no.30:294-312 '58. (MIRA 12:5)

l.Meskevskiy erdena Lenina energeticheskiy institut, Kafedra elektricheskege transperta.

(Electric machinery—Thermal properties)

AFANAS'YEV, A.S.; SHEVCHENKO, V.V.

Electrical reduction of oxygen on iron. Ukr. khim. zhur. 24 no. 2:158-161 '58. (MIRA 11'6)

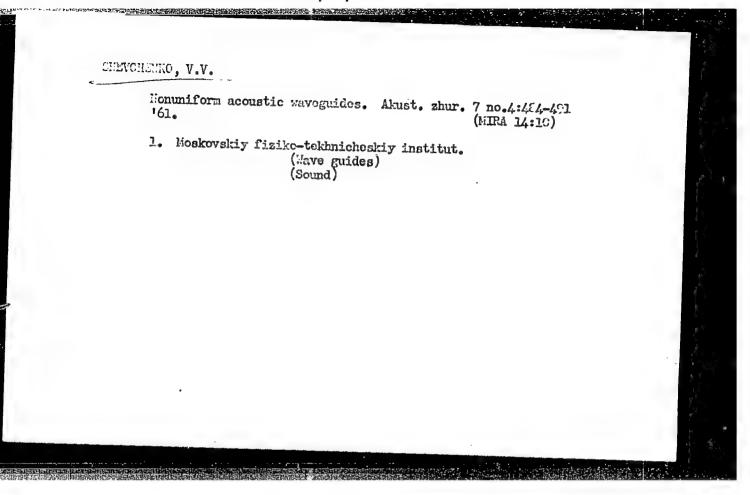
1. Dnepropetrovskiy metallurgicheskiy institut, kafadra fizicheskoy

(Oxygen)
(Reduction, Electrolytic)

SHEVCHENKC, V. V.: Master Tech Sci (diss) -- "The method of thermal parameters as applied to the heating of asynchronous electrical machinery". Moscow, 1959.

14 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 17, 1959, 109)

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S/194/62/000/008/063/100 D271/D308

AUTHORS:

Shevchenko, V.V., Lebedeva, G.N., and Leshchanskiy, Yu.I.

TITLE:

Field near the junction of two waveguides with diffe-

rent cross-sections

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, 20, abstract 8Zh140 (Tr. Mosk. fiz.-tekhn. in-ta, 1962, no. 8, 77 - 93)

TEXT: A system of equations is given for an approximate calculation of the field near a junction of two waveguides with parallel axes. Numerical solution is given for the field near a symmetrical junction of two rectangular waveguides with different cross-sections in the H-plane when H₁₀ mode propagates through the junction. The results are briefly analyzed and compared with experimental data. [Abstracter's note: Complete translation.]

Card 1/1

9.1310

S/194/62/000/008/064/100 D271/D308

AUTHORS:

Lebedeva, G.N., Shevchenko, V.V., and

Leshchanskiy, Yu.I.

TITLE:

Field near the diaphragm in a regular vaveguide

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, 20, abstract 8zh141 (Tr. Mosk. fiz.-tekhn. in-ta, 1962, no. 8, 94 - 108)

TEXT: A system of equations is derived for an approximate calculation of the field near a diaphragm in a regular waveguide. Numerical solution is obtained for the field near a symmetrical H-diaphragm in a rectangular waveguide during propagation of the H10

mode. The results are briefly analyzed and compared with experimental data. [Abstracter's note: Complete translation.]

Card 1/1

70038

9.1300

S/109/62/007/007/006/018 D266/D308

AUTHOR:

Shevchenko, V. V.

TITLE:

Waveguide with inhomogeneous wall impedance. Surface

compensator

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 7, 1962,

1100-1105

TEXT: The purpose of the paper is to study the mode conversion phenomena in a uniform waveguide bounded by a non-uniform impedance wall. The uniform waveguide is treated first assuming inhomogeneous and anisotropic surface impedance. The electric and magnetic intensities at the wall are related by the following formulas:

 $E_s = w_1(s, z)H_z;$ $E_z = -w_2(s, z)H_s$

(1)

where w, and w, are components of the surface impedance tensor, Card 1/4

Waveguide with inhomogeneous ...

S/109/62/007/007/006/018 D266/D308

Z - axial coordinate, s - transverse coordinate of the surface. Using B. Z. Katsenelenbaum's generalized transmission line theory (teoriya neregulyarnykh volnovodov s medlenno menyayuschimisya parametrami (Theory of nonuniform waveguides with slowly varying parameters), Izd. AN SSSR, 1961) the coupling coefficient between modes i and j (i \neq j) is obtained as follows:

 $S^{ij} = \frac{1}{2ikh^{i}(h^{i} - h^{j})} \int_{C}^{\infty} (w_{1}^{i}H_{z}^{i}H_{z}^{j} - w_{2}^{i}H_{s}^{i}) ds \qquad (7a)$

where $k = 2\pi/\lambda$, h^i , h^j - axial propagation coefficients of mode i and j respectively, C - boundary of the cross-section, and the dash denotes differentiation with respect to z. In the second part of the paper the coupling coefficient is calculated when the surface impedance is inhomogeneous (no longer anisotropic) and either Card 2/4

Waveguidé with inhomogeneous ..

S/109/62/007/007/006/018 D266/D308

the cross-section of the waveguide varies or the cross-section is kept constant but the waveguide is curved. The mathematical conditions are obtained when the coupling coefficient is zero, i.e. the mode conversion due to one type of nonuniformity can be compensated by varying the surface impedance. As an example the transition between two circular waveguides of unequal diameter is worked out for an incident H_{01} mode. If ka is large (a - radius of the waveguide) or $|w| \ll 1$ the following expression is obtained for the variation for the surface impedance:

$$w = w(z_0) - ik[a(z) - a(z_0)]$$
 (19)

This choice of the surface impedance happens to eliminate not only one spurious mode but all of them for which the condition hom << ka is satisfied. The obtained linear variation of the surface impedance is disadvantageous from the point of matching necessitating a fur-

Waveguide with inhomogeneous ...

S/109/62/007/007/006/018 D266/D308

ther matching section. There is no possibility of using the above method for suppressing the $\rm E^{}_{11}$ mode in a bent circular waveguide because an inhomogeneous surface impedance does not couple the symmetric E and H modes.

ASSOCIATION:

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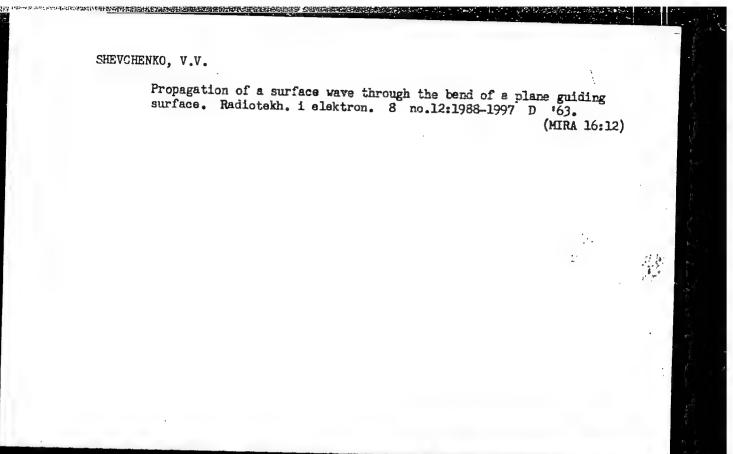
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TITLE: Electromagnetic waves in isotropic laminated plasma waveguide

SOURCE: IVUZ. Radiofizika, v. 9, no. 1, 1966, 110-125

TOPIC TAGS: electromagnetic wave, plasma, plasma generator, plasma waveguide

ABSTRACT: A single plasma layer acting as a waveguide was considered by T. Tamir et al. (Proc. IEEE, v. 51, 317, 1963). This article analyzes a general case of an isotropic plasma waveguide consisting of heterogeneous plasma layers; harmonic the z-axis whose field is independent of the x-coordinate are considered. The laminated waveguide has a mixed (discrete and continuous) wave spectrum; near-waveguide correspond to the discrete part of the spectrum while the radiation field corresponds to the continuous. By introducing a system of natural modes and treating plasma waveguide is solved. Orig. art. has: 4 figures and 75 formulas.

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